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CONTROL NO. Z-17254/84COPY 29 OF 29**Warning Notice**

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DISSEMINATION CONTROL ABBREVIATIONS

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
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NPIC/IEG (01/84)

17 JANUARY 1984

UNUSUAL TESTING OF DOG EAR MOBILE AIR DEFENSE COMMAND POST
YOSHKAR-OLA RADAR TEST FACILITY, USSR (SWN)

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1. **SIGNIFICANCE:** THE SOVIETS MAY BE TESTING THE OPERATION OF THE ACQUISITION RADAR MOUNTED ON THE DOG EAR MOBILE AIR DEFENSE COMMAND POST VEHICLE WHILE THE VEHICLE IS MOVING. IF THIS CAPABILITY CAN BE CONFIRMED, THE SOVIET MANEUVER UNIT'S ABILITY TO DETECT, TRACK, AND DESTROY THREAT AIRCRAFT IN A FLUID BATTLE SITUATION WOULD BE SUBSTANTIALLY IMPROVED. (SWN)
2. **REMARKS:** THE PRIMARY EVIDENCE IS THE APPEARANCE OF TRACKED VEHICLE ACTIVITY IN THE EASTERN PORTION OF YOSHKAR-OLA RADAR TEST FACILITY. A CIRCULAR TRACK WAS FIRST SEEN HERE IN DECEMBER 1982. AN ADDITIONAL LOOP (FORMING A FIGURE EIGHT PATTERN) WAS IDENTIFIED IN THE SOUTHERN PORTION OF THE FACILITY IN JULY 1983. THE NARROW PORTION OF THE FIGURE EIGHT TRACK IS BETWEEN TWO CALIBRATION TOWERS. BOTH TOWERS ARE IN LINE-OF-SIGHT FROM VIRTUALLY ALL OF THE TRACK, SUGGESTING THAT RADAR TESTING FROM A VEHICLE MOVING AROUND THE TRACK COULD HAVE TAKEN PLACE. ANOTHER POSSIBILITY WOULD BE TESTING THE RADAR FROM A SHORT HALT. TRACK MARKS CONNECT A TEST SHED, WHERE A DOG EAR HAS BEEN SEEN, TO THE FIGURE EIGHT TRACK. SINCE JULY 1982, THE DOG EAR, MOUNTED ON A VARIANT OF THE ACRV M-1974 CHASSIS, IS THE ONLY TRACKED VEHICLE-MOUNTED RADAR WHICH HAS BEEN OBSERVED HERE. PAT HAND TRACKED VEHICLE-MOUNTED RADARS HAD BEEN SEEN HERE PRIOR TO JANUARY 1981. TWO POSSIBLE DOG EAR WERE FIRST SEEN HERE IN JULY 1982. A DOG EAR WAS CONFIRMED HERE IN MAY 1983. (SWN)

THE DOG EAR IS A MOBILE AIR DEFENSE COMMAND POST WHICH COMBINES AN ACQUISITION RADAR AND COMMAND AND CONTROL EQUIPMENT IN ONE VEHICLE. THE SYSTEM HAS BEEN FIELD-TESTED WITH REGIMENTAL-LEVEL AIR DEFENSE UNITS WITH THE ZSU-23/4 SELF-PROPELLED ANTIAIRCRAFT GUN AND SA-13 SURFACE-TO-AIR MISSILE SYSTEM. IT IS IN AT LEAST LIMITED SERIES PRODUCTION AT YOSHKAR-OLA OPTICAL AND RADAR PLANT 297 (). YOSHKAR-OLA RADAR TEST FACILITY IS THE PRIMARY TEST AND

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CALIBRATION AREA FOR RADARS PRODUCED AT THE YOSHKAR-OLA PLANT. THE PLANT IS 3.3 NM EAST SOUTHEAST OF THE TEST FACILITY. MOST RADAR TESTING OBSERVED AT THIS FACILITY HAS BEEN CONDUCTED FROM CONCRETE HARDSTANDS AND TEST SHEDS USING CALIBRATION DEVICES MOUNTED ON TWO TRUCKS AND IN THE TWO TOWERS. NOTHING SUGGESTIVE OF RADAR TESTS INVOLVING MOVING VEHICLES HAD BEEN SEEN HERE PRIOR TO DECEMBER 1982. (SWN)

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3. COORDINATES 56-38-00N 047-46-00E (S)

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